

|   | Type | L # | Hits | Search Text                      | DBs  |
|---|------|-----|------|----------------------------------|--|
| 1 | IS&R | L1  | 0    | ("(si-ge)near25(substrate)").PN. | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 2 | IS&R | L2  | 0    | ("(si-ge)near25(substrate)").PN. | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 3 | BRS  | L3  | 340  | (si-ge) near35 (substrate)       | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 4 | BRS  | L4  | 86   | 3 and (epi\$5)                   | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|   | Type | L # | Hits | Search Text  | DBs  |
|---|------|-----|------|--|--|
| 5 | BRS  | L5  | 1365 | (silicon-germanium) near35<br>(substrate)                        | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 6 | BRS  | L6  | 11   | (silicon-germanium) near5<br>(epi\$5) near35 (substrate)         | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 7 | BRS  | L7  | 36   | (silicon near germanium)<br>near5 (epi\$5) near35<br>(substrate) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 8 | BRS  | L8  | 5853 | (silicon near germanium)<br>near35 (substrate)                   | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|    | Type | L # | Hits | Search Text   | DBs  |
|----|------|-----|------|---|--|
| 9  | BRS  | L9  | 1157 | 8 and (epi\$5)                                      | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 10 | BRS  | L10 | 15   | 8 and (epi\$5) near15<br>(discont\$4 or nucleat\$4) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 11 | BRS  | L11 | 2    | "5273930".pn.                                       | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 12 | BRS  | L12 | 3    | (si-ge) near (epit\$4)                              | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|    | Type | L # | Hits | Search Text                             | DBs  |
|----|------|-----|------|---|--|
| 13 | BRS  | L13 | 31   | (si-ge) near10 (epit\$4)                | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 14 | BRS  | L14 | 31   | (Si-Ge) near10 (epit\$4)                | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 15 | BRS  | L15 | 5    | (ge-si) near10 (epit\$4)                | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 16 | BRS  | L16 | 37   | (semiconductor near seed<br>near layer) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|    | Type | L # | Hits  | Search Text                                  | DBs  |
|----|------|-----|-------|--|--|
| 17 | BRS  | L17 | 13260 | (seed near layer)                            | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 18 | BRS  | L18 | 31    | (seed near layer) near35<br>(si-ge or ge-si) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 19 | BRS  | L19 | 34    | (seed) near35 (si-ge or ge-si)               | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 20 | BRS  | L20 | 1444  | (si-ge or ge-si)                             | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|    | Type | L # | Hits | Search Text           | DBs  |
|----|------|-----|------|-----------------------|--|
| 21 | BRS  | L21 | 1280 | (si-ge)               | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 22 | BRS  | L22 | 213  | (ge-si)               | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 23 | BRS  | L23 | 2    | (ge-si) near35 (seed) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 24 | BRS  | L24 | 32   | (si-ge) near15 (seed) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|   | Type | L # | Hits  | Search Text  | DBs  |
|---|------|-----|-------|--|--|
| 1 | BRS  | L1  | 16231 | (si near ge) or (ge near si)                               | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 2 | BRS  | L2  | 23    | ((si near ge) or (ge near si)) near (epi\$5)               | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 3 | BRS  | L3  | 4     | ((si-ge) or (ge-si)) near (epi\$5)                         | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 4 | BRS  | L4  | 41    | ((silicon-germanium) or (germanium-silicon)) near (epi\$5) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|   | Type | L # | Hits | Search Text  | DBs  |
|---|------|-----|------|--|--|
| 5 | BRS  | L5  | 0    | ((si-germanium) or<br>(germanium-si)) near<br>(epi\$5)                     | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 6 | BRS  | L6  | 62   | ((silicon near germanium)<br>or (germanium near<br>silicon)) near (epi\$5) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 7 | BRS  | L7  | 0    | ((si near germanium) or<br>(germanium near si)) near<br>(epi\$5)           | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 8 | BRS  | L8  | 0    | ((si-germanium) or<br>(germanium-si)) near<br>(epi\$5)                     | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |



|    | Type | L # | Hits | Search Text  | DBs  |
|----|------|-----|------|--|--|
| 9  | BRS  | L9  | 299  | ((si near ge) or (ge near si)) near (crystal\$5)                         | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 10 | BRS  | L10 | 68   | ((si-ge) or (ge-si)) near (crystal\$5)                                   | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 11 | BRS  | L11 | 212  | ((silicon-germanium) or (germanium-silicon)) near (crystal\$5)           | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 12 | BRS  | L12 | 909  | ((silicon near germanium) or (germanium near silicon)) near (crystal\$5) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|    | Type | L # | Hits | Search Text                                | DBs  |
|----|------|-----|------|--|--|
| 25 | BRS  | L25 | 0    | (si-ge) near15 (discont\$5)                | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 26 | BRS  | L26 | 4    | (si-ge) and (discont\$5)                   | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 27 | BRS  | L27 | 1039 | (si-ge) and (cont\$5)                      | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |
| 28 | BRS  | L28 | 33   | ((si-ge) near25 (epi\$5))<br>and (cont\$5) | US-<br>PGPUB;<br>USPAT;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |

|   | U | 1 | Document ID          | Title  |
|---|---|---|----------------------|--|
| 1 |   |   | US 20030116187<br>A1 | Tandem Si-Ge solar cell with<br>improved conversion efficiency |
| 2 |   |   | US 6613974 B2        | Tandem Si-Ge solar cell with<br>improved conversion efficiency |
| 3 |   |   | US 6325858 B1        | Long life high temperature<br>process chamber                  |